AUTHOR INDEX

(D) Denotes Demonstration (T) Title only

AL-MODHEFER A.K.J., ATHERTON J.C. & GODDARD C. Changes in urine osmolality during pregnancy in the rat. 69*P*

ALLEN David G., BLINKS John R. & GODT Robert E. Influence of deuterium oxide on calcium transients and myofibrillar responses of frog skeletal muscle. 225

ALVAREZ-LEEFMANS F.J., GAMIÑO S.M. & RINK T.J. Intracellular free magnesium in neurones of *Helix aspersa* measured with ion-selective micro-electrodes. 303

ANDREWS Margaret M. The relationship between prolonged membrane depolarization and contracture response in denervated rat skeletal muscle. 102*P*

ARGENT B.E., ARKLE S., PICKFORD P.D. & SCHOFIELD P.S. The effects of trifluoperazine on amylase secretion by the *in vitro* rat parotid gland. 38*P*

ARGENT B.E. & ARKLE S. Biochemical studies on pancreatic ducts isolated from copper-deficient rats. 90*P*

ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

ARKLE S. *see* ARGENT B.E., ARKLE S., PICKFORD P.D. & SCHOFIELD P.S. The effects of trifluoperazine on amylase secretion by the *in vitro* rat parotid gland. 38*P*

ARKLE S. *see* ARGENT B.E. & ARKLE S. Biochemical studies on pancreatic ducts isolated from copper-deficient rats. 90*P*

ATHERTON J.C. *see* AL-MODHEFER A.K.J., ATHERTON J.C. & GODDARD C. Changes in urine osmolality during pregnancy in the rat. 69*P*

BARBER Barbara & TAYLOR Ann Calmodulin antagonists block vasopressin-stimulated water flow, but not the inhibitory effects of raised cytosolic Ca^{2+} in toad urinary bladder. 47*P*

BARER Gwenda R. & PALLOT D.J. Changes in catecholamine content of the rat carotid body in chronic hypoxia or hypercapnia; modification of hypoxic changes by carotid body sympathectomy. 63*P*

BARNES S. & DIMALINE R. A method for studying gastric acid responses to physiological stimuli in the conscious rat. (D) 29*P*

BARRETT D.J. & TAYLOR E.W. Characteristics of vagal motoneurones in the dogfish, *Scyliorhinus canicular* (L.) 59*P*

BAYLOR D.A., MATTHEWS G. & NUNN B.J. Location and function of voltage-sensitive conductances in retinal rods of the salamander, *Ambystoma tigrinum*. 203

BELGUM Jack H., DVORAK David R. & MCREYNOLDS John S. Strychnine blocks transient but not sustained inhibition in mudpuppy retinal ganglion cells 273

BELL F.R. & DORIS P.A. Endogenous neuropeptide levels in plasma and cerebrospinal fluid during increased sodium appetite in steers. 79*P*

BHOOLA K.D., CHAPMAN I.D., CORRALL R.J.M., O'HARE J.P. & ROLAND J. Is tissue kallikrein important in the control of natriuresis and diuresis induced by water immersion in man? 68*P*

BISBY M.A. & KEEN P. A conditioning lesion increases regeneration rate of rat sciatic nerve axons containing substance P. 56*P*

BISSET G.W. & CHOWDREY H.S. A cholinergic link in the reflex release of vasopressin by hypotension in the rat. 523

BLINKS John R. *see* ALLEN David G., BLINKS John R. & GODT Robert E. Influence of deuterium oxide on calcium transients and myofibrillar responses of frog skeletal muscle. 225

BORN G.V.R. & KRATZER M.A.A. Source and concentration of extracellular adenosine triphosphate during haemostasis in rats, rabbits and man. 419

BOUNTRA C., GEORGIOU P., GREEN K. & HOUSE C.R. Micro-electrode recordings from rabbit ciliary epithelium *in vitro*. 45*P*

BOURNE P.K. & COBBOLD P.H. Aequorin measurements of free $[Ca^{2+}]$ in single isolated heart cells. (D) 32*P*

BOYD P.J., OSBORNE N.N. & WALKER R.J. Immunohistochemical evidence for 5-Hydroxytryptamine (5-HT), FMRFamide-like and Substance P-like material in, and their actions on, the heart of the snail, *Helix aspersa*. 52*P*

BRODIE D.A. & ESTON R.G. Energy cost of arm, leg and combined arm–leg ergometry in the sitting position. 74*P*

BROOKS George A. & REILLY Thomas Thermoregulatory responses to exercise at different times of day. 99*P*

BROWN A.G., FYFFE R.E.W., NOBLE R. & ROWE M.J. Effects of hind limb nerve section on lumbosacral dorsal horn neurones in the cat. 375

BROWN M. Christian & NUTTALL Alfred L. Efferent control of cochlear inner hair cell responses in the guinea-pig. 625

BUCKINGHAM Julia C. & COVER Patricia O. Production of luteinizing hormone by dispersed rat pituitary cells. 75*P*

BUCKINGHAM Julia C. & COOPER Teresa A. Hypothalamo-pituitary-adrenocortical activity in the naloxone-treated rat. 76*P*

BULL Judith S., COLLINGE I.A., GRUNDY D., SCRATCHERD T. & WACH R.A. The effect of intraluminal amino acids on small intestinal motility in the conscious dog. 40*P*

BURNSTOCK G. & SNEDDON P. Is the contractile response of the guinea-pig vas deferens to neuronally released noradrenaline dependent on membrane depolarization? 51*P*

CADY E.B., EDWARDS R.H.T., GRIFFITHS R.D. & WILKIE D.R. ^{31}P nuclear magnetic resonance (NMR) studies of leg-muscle metabolites in Duchenne muscular dystrophy. 71*P*

CASE R.M., GARNER A. & UDDIN K.K. A comparison of the actions of secretin, prostaglandin E_2 and CCK-octapeptide on duodenal and biliary HCO_3 secretion *in vivo*. 81*P*

CHAPMAN I.D. *see* BHOOLA K.D., CHAPMAN I.D., CORRALL R.J.M., O'HARE J.P. & ROLAND J. Is tissue kallikrein important in the control of natriuresis and diuresis induced by water immersion in man? 68*P*

CHOWDREY H.S. *see* BISSET G.W. & CHOWDREY H.S. A cholinergic link in the reflex release of vasopressin by hypotension in the rat. 523

CLARK C.R., DAUM P., GRAHAM W. & HUGHES J. Determination of the specificity of the mouse c.n.s. cholecystokinin receptor using two radiolabelled probes. 58*P*

CLARKE J.D.W. & ROBERTS Alan Interneurones in the *Xenopus* embryo spinal cord: sensory excitation and activity during swimming. 345

CLOUGH Geraldine & SMAJE L.H. Exchange area and surface properties of the microvasculature of the rabbit submandibular gland following duct ligation. 445

COATES D.R. & SNART R.S. Developmental aspects of steroid-induced ammonia release from isolated sections of rat intestine. 1

COBBOLD P.H. *see* BOURNE P.K. & COBBOLD P.H. Aequorin measurements of free [Ca^{2+}] in single isolated heart cells. (D) 32*P*

COLLINGE I.A. *see* BULL Judith S., COLLINGE I.A., GRUNDY D., SCRATCHERD T. & WACH R.A. The effect of intraluminal amino acids on small intestinal motility in the conscious dog. 40*P*

CONNOR John A. & HOCKBERGER Philip A novel membrane sodium current induced by injection of cyclic nucleotides into gastropod neurones. 139

CONNOR John A. & HOCKBERGER Philip Intracellular pH changes induced by injection of cyclic nucleotides into gastropod neurones. 163

COOKE R.G., HOMEIDA A.M. & WATKIN W.B. Simultaneous release of neurophysin and ovarian oxytocin during luteolysis in the goat. 97*P*

COOPER Teresa A. *see* BUCKINGHAM Julia C. & COOPER Teresa A. Hypothalamo-pituitary-adrenocortical activity in the naloxone-treated rat. 76*P*

COREY D.P., DUBINSKY J.M. & SCHWARTZ E.A. The calcium current in inner segments of rods from the salamander (*Ambystoma tigrinum*) retina. 557

CORRALL R.J.M. *see* BHOOLA K.D., CHAPMAN I.D., CORRALL R.J.M., O'HARE J.P. & ROLAND J. Is tissue kallikrein important in the control of natriuresis and diuresis induced by water immersion in man? 68*P*

COTA G., NICOLA SIRI L. & STEFANI E. Calcium channel inactivation in frog (*Rana pipiens* and *Rana moctezuma*) skeletal muscle fibres. 99

COTTRELL D.F. & IGGO A. Tension receptors with vagal afferent fibres in the proximal duodenum and pyloric sphincter of sheep. 457

COTTRELL D.F. & IGGO A. The responses of duodenal tension receptors in sheep to pentagastrin, cholecystokinin and some other drugs. 477

COTTRELL D.F. & IGGO A. Mucosal enteroceptors with vagal afferent fibres in the proximal duodenum of sheep. 497

COURTICE Gillian P., KWONG T.E., LUMBERS Eugenie R. & POTTER Erica K. Excitation of the cardiac vagus by vasopressin in mammals. 547

COVER Patricia O. *see* BUCKINGHAM Julia C. & COVER Patricia O. Production of luteinizing hormone by dispersed rat pituitary cells. 75*P*

CREMASCHI D., JAMES P.S., MEYER G., ROSSETTI C. & SMITH M.W. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. 363

CURTIN N.A. & RAWLINSON S.R. Effects of carbon dioxide on force during shortening of isolated skeletal muscle from frog. 70*P*

DAUM P. *see* CLARK C.R., DAUM P., GRAHAM W. & HUGHES J. Determination of the specificity of the mouse c.n.s. cholecystokinin receptor using two radiolabelled probes. 58*P*

DAVIES J.C. & KIDD G.L. A microprocessor-controlled stimulus trigger system useful for laboratory and clinical use. (D) 23*P*

DAWSON Jill & DJAMGOZ M.B.A. Distribution of chloride ions in the body-wall muscle cells of insect larvae: a comparison between Diptera and Lepidoptera. 48*P*

DESMOND H.P., DOCKRAY G.J., GREGORY R.A. & SPURDENS M.D. Identification and characterization of a novel peptide generated during gastrin biosynthesis in pig and ferret. 83*P*

DIMALINE R. *see* BARNES S. & DIMALINE R. A method for studying gastric acid responses to physiological stimuli in the conscious rat. (D) 29*P*

DIMALINE R. & POWER D.M. Post-secretory processing of gastrin in the rat. 82*P*

DJAMGOZ M.B.A. *see* DAWSON Jill & DJAMGOZ M.B.A. Distribution of chloride ions in the body-wall muscle cells of insect larvae: a comparison between Diptera and Lepidoptera. 48*P*

DOCKRAY G.J. *see* DESMOND H.P., DOCKRAY G.J., GREGORY R.A. & SPURDENS M.D. Identification and characterization of a novel peptide generated during gastrin biosynthesis in pig and ferret. 83*P*

DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

DORIS P.A. *see* BELL F.R. & DORIS P.A. Endogenous neuropeptide levels in plasma and cerebrospinal fluid during increased sodium appetite in steers. 79*P*

DOUGLAS A.J., MCARDLE H.J. & MORGAN E.H. Transferrin and iron uptake by cultured rat placental cells. 54*P*

DUBINSKY J.M. *see* COREY D.P., DUBINSKY J.M. & SCHWARTZ E.A. The calcium current in inner segments of rods from the salamander (*Ambystoma tigrinum*) retina. 557

DUNNE M.J., FINDLAY I. & PETERSEN O.H. Patch-clamp study of voltage- and Ca^{2+}-activated K^+ channels in isolated rat pancreatic islet cells. 44*P*

DVORAK David R. *see* BELGUM Jack H., DVORAK David R. & MCREYNOLDS John S. Strychnine blocks transient but not sustained inhibition in mudpuppy retinal ganglion cells 273

EDWARDS R.H.T. *see* CADY E.B., EDWARDS R.H.T., GRIFFITHS R.D. & WILKIE D.R. ^{31}P nuclear magnetic resonance (NMR) studies of leg-muscle metabolites in Duchenne muscular dystrophy. 71*P*

EDWARDS R.H.T., JACKSON M.J. & JONES D.A. Calcium accumulation and lipid peroxidation in muscular dystrophy. 72*P*

ELASHOFF J., GARCIA R. & TAYLOR I.L. Effects of vagotomy on satiety induced by gastrointestinal hormones in the rat. 78*P*

ELFONT Robert M., EPSTEIN Alan N. & FITZSIMONS James T. Involvement of the renin–angiotensin system in captopril-induced sodium appetite in the rat. 11

ELLIOTT J.R., HAYDON D.A. & HENDRY B.M. Anaesthetic action of esters and ketones: evidence for an interaction with the sodium channel protein in squid axons. 407

ELLORY J.C., GIBSON J.S. & LAU K.R. Chloride absorption by marine teleost intestine: the role of the basolateral membrane. 35*P*

EPSTEIN Alan N. *see* ELFONT Robert M., EPSTEIN Alan N. & FITZSIMONS James T. Involvement of the renin–angiotensin system in captopril-induced sodium appetite in the rat. 11

ESTON R.G. *see* BRODIE D.A. & ESTON R.G. Energy cost of arm, leg and combined arm–leg ergometry in the sitting position. 74*P*

EXLEY P.M. & GALLACHER D.V. Chloride-dependent, diuretic-sensitive potassium re-uptake in mouse submandibular gland: evidence for a potassium–sodium-chloride co-transporter. 94P

FEJES-TÓTH Géza & NÁRAY-FEJES-TÓTH Anikó Effect of aldosterone on urinary kallikrein and prostaglandin excretion in the rat. 79

FELLMER G., PIERAU FR.-K. & TAYLOR D.C.M. Double labelling with fluorescent tracers confirms prespinal somato-visceral convergence in rat and cat. 57P

FINDLAY I. & FURLONG G.A. On-line analysis of patch-clamp data with a microcomputer. (D) 25P

FINDLAY I. *see* DUNNE M.J., FINDLAY I. & PETERSEN O.H. Patch-clamp study of voltage- and Ca^{2+}-activated K^+ channels in isolated rat pancreatic islet cells. 44P

FITZSIMONS James T. *see* ELFONT Robert M., EPSTEIN Alan N. & FITZSIMONS James T. Involvement of the renin–angiotensin system in captopril-induced sodium appetite in the rat. 11

FLEETWOOD-WALKER S.M., HOPE P.J. & MOLONY V. Dopamine inhibits the response of multireceptive dorsal horn neurones to noxious, but not innocuous, cutaneous stimulation in the rat and cat. 95P

FONE K.C.F. & WILSON H. A method for the simultaneous superfusion and extracellular recording of medullary respiratory neurones in the cat. 96P

FORD R., HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. Influence of cephalic blood P_{co_2} on vascular capacitance in the dog. 65P

FUKAI Kiyoko & FUKUDA Hiroyuki The intramural pelvic nerves in the colon of dogs. 89

FUKUDA Hiroyuki *see* FUKAI Kiyoko & FUKUDA Hiroyuki The intramural pelvic nerves in the colon of dogs. 89

FURLONG G.A. *see* FINDLAY I. & FURLONG G.A. On-line analysis of patch-clamp data with a microcomputer. (D) 25P

FYFFE R.E.W. *see* BROWN A.G., FYFFE R.E.W., NOBLE R. & ROWE M.J. Effects of hind limb nerve section on lumbosacral dorsal horn neurones in the cat. 375

GALLACHER D.V. *see* EXLEY P.M. & GALLACHER D.V. Chloride-dependent, diuretic-sensitive potassium re-uptake in mouse submandibular gland: evidence for a potassium–sodium-chloride co-transporter. 94P

GAMIÑO S.M. *see* ALVAREZ-LEEFMANS F.J., GAMIÑO S.M. & RINK T.J. Intracellular free magnesium in neurones of *Helix aspersa* measured with ion-selective micro-electrodes. 303

GARCIA R. *see* ELASHOFF J., GARCIA R. & TAYLOR I.L. Effects of vagotomy on satiety induced by gastrointestinal hormones in the rat. 78P

GARLAND H.O. & WALKER J. Intrarenal blood flow distribution following acute saline loading in the pregnant rat. 67P

GARNER A., HEYLINGS J.R., PETERS T.J. & WILES J.M. Adrenergic agonists stimulate HCO_3 secretion by amphibian duodenum *in vitro* via an action on P_2 receptors. 34P

GARNER A. & HEYLINGS J.R. Basal bicarbonate secretion by amphibian gastric and duodenal epithelia *in vitro*. 37P

GARNER A. *see* CASE R.M., GARNER A. & UDDIN K.K. A comparison of the actions of secretin, prostaglandin E_2 and CCK-octapeptide on duodenal and biliary HCO_3 secretion *in vivo*. 81P

GEORGIOU P. *see* BOUNTRA C., GEORGIOU P., GREEN K. & HOUSE C.R. Micro-electrode recordings from rabbit ciliary epithelium *in vitro*. 45P

GHELANI A., HOLT D., HUNT W.B. & WILKINSON J. The use of a cascade of superfused preparations to investigate the nature of the rebound contraction of the rat gastric corpus stip to field stimulation. 87P

GIBSON J.S. *see* ELLORY J.C., GIBSON J.S. & LAU K.R. Chloride absorption by marine teleost intestine: the role of the basolateral membrane. 35P

GILROY A.S. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39P

GLAVINOVIC M.I. Prolongation of min e.p.c.s. after cholinesterase blockage is amplitude-dependent. 43P

GODDARD C. *see* AL-MODHEFER A.K.J., ATHERTON J.C. & GODDARD C. Changes in urine osmolality during pregnancy in the rat. 69P

GODT Robert E. *see* ALLEN David G., BLINKS John R. & GODT Robert E. Influence of deuterium oxide on calcium transients and myofibrillar responses of frog skeletal muscle. 225

GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Relaxation of rabbit psoas muscle fibres from rigor by photochemical generation of adenosine-5′-triphosphate. 577

GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Initiation of active contraction by photogeneration of adenosine-5′-triphosphate in rabbit psoas muscle fibres. 605

GRAHAM W. *see* CLARK C.R., DAUM P., GRAHAM W. & HUGHES J. Determination of the specificity of the mouse c.n.s. cholecystokinin receptor using two radiolabelled probes. 58*P*

GREEN Ann E., HARRISON F.A., HILLS F., PATERSON J.Y.F. & SAUNDERS R.C. Liver blood flow in conscious calves. 61*P*

GREEN K. *see* BOUNTRA C., GEORGIOU P., GREEN K. & HOUSE C.R. Micro-electrode recordings from rabbit ciliary epithelium *in vitro*. 45*P*

GREGORY R.A. *see* DESMOND H.P., DOCKRAY G.J., GREGORY R.A. & SPURDENS M.D. Identification and characterization of a novel peptide generated during gastrin biosynthesis in pig and ferret. 83*P*

GREIG C. *see* DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

GRIFFIN P., MCKIRDY H.C. & MARSHALL R.W. Effect of morphine on muscle strips from human choledochoduodenal junction. 42*P*

GRIFFITHS R.D. *see* CADY E.B., EDWARDS R.H.T., GRIFFITHS R.D. & WILKIE D.R. ^{31}P nuclear magnetic resonance (NMR) studies of leg-muscle metabolites in Duchenne muscular dystrophy. 71*P*

GRINDROD S. *see* DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

GRUNDY D. *see* BULL Judith S., COLLINGE I.A., GRUNDY D., SCRATCHERD T. & WACH R.A. The effect of intraluminal amino acids on small intestinal motility in the conscious dog. 40*P*

HAAS H.L. & JEFFERYS J.G.R. Low-calcium field burst discharges of CA1 pyramidal neurones in rat hippocampal slices. 185

HAINSWORTH R. *see* FORD R., HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. Influence of cephalic blood P_{co_2} on vascular capacitance in the dog. 65*P*

HALL A.C. & WILLIS J.S. 'Passive' cation permeability in red cells of various species at low temperatures. 49*P*

HARDCASTLE J., HARDCASTLE P.T. & KELLEHER D.K. The effect of auranofin on intestinal transport mechanisms in the rat *in vitro*. 86*P*

HARDCASTLE P.T. *see* HARDCASTLE J., HARDCASTLE P.T. & KELLEHER D.K. The effect of auranofin on intestinal transport mechanisms in the rat *in vitro*. 86*P*

HARRISON F.A. *see* GREEN Ann E., HARRISON F.A., HILLS F., PATERSON J.Y.F. & SAUNDERS R.C. Liver blood flow in conscious calves. 61*P*

HAYDON D.A. *see* ELLIOTT J.R., HAYDON D.A. & HENDRY B.M. Anaesthetic action of esters and ketones: evidence for an interaction with the sodium channel protein in squid axons. 407

HENDRY B.M. *see* ELLIOTT J.R., HAYDON D.A. & HENDRY B.M. Anaesthetic action of esters and ketones: evidence for an interaction with the sodium channel protein in squid axons. 407

HEWITT J.E. & SMITH M.W. An unusual effect of thyroid hormones on lactase expression by adult rat jejunal enterocytes. 77*P*

HEYLINGS J.R. *see* GARNER A., HEYLINGS J.R., PETERS T.J. & WILES J.M. Adrenergic agonists stimulate HCO_3 secretion by amphibian duodenum *in vitro* via an action on P_2 receptors. 34*P*

HEYLINGS J.R. *see* GARNER A. & HEYLINGS J.R. Basal bicarbonate secretion by amphibian gastric and duodenal epithelia *in vitro*. 37*P*

HIBBERD M.G. *see* GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Relaxation of rabbit psoas muscle fibres from rigor by photochemical generation of adenosine-5′-triphosphate. 577

HIBBERD M.G. *see* GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Initiation of active contraction by photogeneration of adenosine-5′-triphosphate in rabbit psoas muscle fibres. 605

HIGGS N. *see* WARHURST G., SMITH G., HIGGS N. & TURNBERG L.A. Morphine withdrawal diarrhoea may be initiated via central nervous opiate receptors in the rat. 88*P*

HILLS F. *see* GREEN Ann E., HARRISON F.A., HILLS F., PATERSON J.Y.F. & SAUNDERS R.C. Liver blood flow in conscious calves. 61*P*

HIRST B.H. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

HOCKBERGER Philip *see* CONNOR John A. & HOCKBERGER Philip A novel membrane sodium current induced by injection of cyclic nucleotides into gastropod neurones. 139

HOCKBERGER Philip *see* CONNOR John A. & HOCKBERGER Philip Intracellular pH changes induced by injection of cyclic nucleotides into gastropod neurones. 163

HOLT D. *see* GHELANI A., HOLT D., HUNT W.B. & WILKINSON J. The use of a cascade of superfused preparations to investigate the nature of the rebound contraction of the rat gastric corpus stip to field stimulation. 87*P*

HOMEIDA A.M. *see* COOKE R.G., HOMEIDA A.M. & WATKIN W.B. Simultaneous release of neurophysin and ovarian oxytocin during luteolysis in the goat. 97*P*

HOPE P.J. *see* FLEETWOOD-WALKER S.M., HOPE P.J. & MOLONY V. Dopamine inhibits the response of multireceptive dorsal horn neurones to noxious, but not innocuous, cutaneous stimulation in the rat and cat. 95*P*

HOUSE C.R. *see* BOUNTRA C., GEORGIOU P., GREEN K. & HOUSE C.R. Micro-electrode recordings from rabbit ciliary epithelium *in vitro*. 45*P*

HUGHES J. *see* CLARK C.R., DAUM P., GRAHAM W. & HUGHES J. Determination of the specificity of the mouse c.n.s. cholecystokinin receptor using two radiolabelled probes. 58*P*

HUNT W.B. *see* GHELANI A., HOLT D., HUNT W.B. & WILKINSON J. The use of a cascade of superfused preparations to investigate the nature of the rebound contraction of the rat gastric corpus stip to field stimulation. 87*P*

IGGO A. *see* COTTRELL D.F. & IGGO A. Tension receptors with vagal afferent fibres in the proximal duodenum and pyloric sphincter of sheep. 457

IGGO A. *see* COTTRELL D.F. & IGGO A. The responses of duodenal tension receptors in sheep to pentagastrin, cholecystokinin and some other drugs. 477

IGGO A. *see* COTTRELL D.F. & IGGO A. Mucosal enteroceptors with vagal afferent fibres in the proximal duodenum of sheep. 497

IWATSUKI N. Voltage-clamp study of the effect of external Ba^{2+} on outward K^+ current in single pig pancreatic acinar cells *in vitro*. 91*P*

IWATSUKI N. The effect of internal Ba^{2+} on single-channel Ca^{2+}-activated K^+ currents in pig pancreatic acinar cells *in vitro*. 92*P*

JACKSON M.J. *see* EDWARDS R.H.T., JACKSON M.J. & JONES D.A. Calcium accumulation and lipid peroxidation in muscular dystrophy. 72*P*

JAMES P.S. *see* CREMASCHI D., JAMES P.S., MEYER G., ROSSETTI C. & SMITH M.W. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. 363

JEFFERYS J.G.R. *see* HAAS H.L. & JEFFERYS J.G.R. Low-calcium field burst discharges of CA1 pyramidal neurones in rat hippocampal slices. 185

JIVRAJ M., MARRIOTT C., MARTIN G.P. & TURNER N.C. The effect of potential ulcerogenic agents on hydrogen ion diffusion through native porcine gastric mucus. 85*P*

JONES D.A. *see* EDWARDS R.H.T., JACKSON M.J. & JONES D.A. Calcium accumulation and lipid peroxidation in muscular dystrophy. 72*P*

KARIM F. & POUCHER S.M. Renal responses to small changes in carotid sinus pressure in dogs. 80*P*

KAWAGOE R., ONODERA K. & TAKEUCHI A. The uptake and release of glutamate at the crayfish neuromuscular junction. 69

KEEN P. *see* BISBY M.A. & KEEN P. A conditioning lesion increases regeneration rate of rat sciatic nerve axons containing substance P. 56*P*

KELLEHER D.K. *see* HARDCASTLE J., HARDCASTLE P.T. & KELLEHER D.K. The effect of auranofin on intestinal transport mechanisms in the rat *in vitro*. 86*P*

KIDD C., LI J.M. & MCWILLIAM P.N. Cardiovascular reflexes elicited by gastric distension in the rat. 98*P*

KIDD G.L. *see* DAVIES J.C. & KIDD G.L. A microprocessor-controlled stimulus trigger system useful for laboratory and clinical use. (D) 23*P*

KIDD G.L. An analysis of the firing characteristics of motor units in the facial muscles of expression. 55*P*

KIRKMAN E. & SCOTT Evelyn M. The effect of saralasin on the baroreceptor reflex in the cat. 60*P*

KRAGH-HANSEN Ulrich & SHEIKH M. Iqbal Serine uptake by luminal and basolateral membrane vesicles from rabbit kidney. 55

KRATZER M.A.A. *see* BORN G.V.R. & KRATZER M.A.A. Source and concentration of extracellular adenosine triphosphate during haemostasis in rats, rabbits and man. 419

KWONG T.E. *see* COURTICE Gillian P., KWONG T.E., LUMBERS Eugenie R. & POTTER Erica K. Excitation of the cardiac vagus by vasopressin in mammals. 547

LAKOMY H.K.A. An ergometer for measuring the power generated during sprinting. (D) 33*P*

LAU K.R. *see* ELLORY J.C., GIBSON J.S. & LAU K.R. Chloride absorption by marine teleost intestine: the role of the basolateral membrane. 35*P*

LEE K.S. & TSIEN R.W. High selectivity of calcium channels in single dialysed heart cells of the guinea-pig. 253

LI J.M. *see* KIDD C., LI J.M. & MCWILLIAM P.N. Cardiovascular reflexes elicited by gastric distension in the rat. 98*P*

LITCHFIELD P.E., MAUGHAN R.J. & NIMMO Myra A. Isometric endurance capacity and muscle fibre composition in man. 73*P*

LUMBERS Eugenie R. *see* COURTICE Gillian P., KWONG T.E., LUMBERS Eugenie R. & POTTER Erica K. Excitation of the cardiac vagus by vasopressin in mammals. 547

MCARDLE H.J. *see* DOUGLAS A.J., MCARDLE H.J. & MORGAN E.H. Transferrin and iron uptake by cultured rat placental cells. 54*P*

MACDONALD A.G., OGSTON D. & PRICE R.A. High hydrostatic pressure modifies platelet aggregation. 50*P*

MCINTYRE A.K., PROSKE U. & RAWSON J.A. Cortical projection of afferent information from tendon organs in the cat. 395

MCKIRDY H.C. *see* GRIFFIN P., MCKIRDY H.C. & MARSHALL R.W. Effect of morphine on muscle strips from human choledochoduodenal junction. 42*P*

MCREYNOLDS John S. *see* BELGUM Jack H., DVORAK David R. & MCREYNOLDS John S. Strychnine blocks transient but not sustained inhibition in mudpuppy retinal ganglion cells 273

MCWILLIAM P.N. *see* KIDD C., LI J.M. & MCWILLIAM P.N. Cardiovascular reflexes elicited by gastric distension in the rat. 98*P*

MADISON D.V. & NICOLL R.A. Control of the repetitive discharge of rat CA1 pyramidal neurones *in vitro*. 319

MAHER D.V. Programmable and re-programmable neuromuscular stimulators for clinical use. (D) 24*P*

MANN G.E. & NORMAN P.S.R. Stimulation of neutral amino acid transport by insulin in the perfused rat exocrine pancreas. 53*P*

MARR A.P. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

MARRIOTT C., MARTIN G.P., NEWBERY R. & TURNER N.C. The effect of phosphatidylcholine on bile-salt-induced gastric ulceration in the rat. 84*P*

MARRIOTT C. *see* JIVRAJ M., MARRIOTT C., MARTIN G.P. & TURNER N.C. The effect of potential ulcerogenic agents on hydrogen ion diffusion through native porcine gastric mucus. 85*P*

MARSHALL Janice M. Cardiovascular responses to peripheral chemoreceptor stimulation in the rat. 64*P*

MARSHALL R.W. *see* GRIFFIN P., MCKIRDY H.C. & MARSHALL R.W. Effect of morphine on muscle strips from human choledochoduodenal junction. 42*P*

MARTIN G.P. *see* MARRIOTT C., MARTIN G.P., NEWBERY R. & TURNER N.C. The effect of phosphatidylcholine on bile-salt-induced gastric ulceration in the rat. 84*P*

MARTIN G.P. *see* JIVRAJ M., MARRIOTT C., MARTIN G.P. & TURNER N.C. The effect of potential ulcerogenic agents on hydrogen ion diffusion through native porcine gastric mucus. 85*P*

MARTIN R.J. & THORN P. A high conductance anion channel in somatic muscle cells of *Ascaris suum*. 46*P*

MARUYAMA Y., PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. Analysis of single-channel current traces from membrane patches apparently containing multiple identical channels. (D) 27*P*

MATTHEWS G. *see* BAYLOR D.A., MATTHEWS G. & NUNN B.J. Location and function of voltage-sensitive conductances in retinal rods of the salamander, *Ambystoma tigrinum*. 203

MAUGHAN R.J. *see* LITCHFIELD P.E., MAUGHAN R.J. & NIMMO Myra A. Isometric endurance capacity and muscle fibre composition in man. 73*P*

MAYER Mark L. & WESTBROOK Gary L. Mixed-agonist action of excitatory amino acids on mouse spinal cord neurones under voltage clamp. 29

MEUNIER François-Marie Relationship between presynaptic membrane potential and acetylcholine release in synaptosomes from *Torpedo* electric organ. 121

MEYER G. *see* CREMASCHI D., JAMES P.S., MEYER G., ROSSETTI C. & SMITH M.W. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. 363

MOLONY V. *see* FLEETWOOD-WALKER S.M., HOPE P.J. & MOLONY V. Dopamine inhibits the response of multireceptive dorsal horn neurones to noxious, but not innocuous, cutaneous stimulation in the rat and cat. 95*P*

MONTGOMERY A. Isotonic responses of hypo- and hyperthyroid rat skeletal muscles. 101*P*

MORGAN E.H. *see* DOUGLAS A.J., MCARDLE H.J. & MORGAN E.H. Transferrin and iron uptake by cultured rat placental cells. 54*P*

NÁRAY-FEJES-TÓTH Anikó *see* FEJES-TÓTH Géza & NÁRAY-FEJES-TÓTH Anikó Effect of aldosterone on urinary kallikrein and prostaglandin excretion in the rat. 79

NARICI M. *see* DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

NEWBERY R. *see* MARRIOTT C., MARTIN G.P., NEWBERY R. & TURNER N.C. The effect of phosphatidylcholine on bile-salt-induced gastric ulceration in the rat. 84*P*

NICOLA SIRI L. *see* COTA G., NICOLA SIRI L. & STEFANI E. Calcium channel inactivation in frog (*Rana pipiens* and *Rana moctezuma*) skeletal muscle fibres. 99

NICOLL R.A. *see* MADISON D.V. & NICOLL R.A. Control of the repetitive discharge of rat CA1 pyramidal neurones *in vitro*. 319

NIMMO Myra A. *see* LITCHFIELD P.E., MAUGHAN R.J. & NIMMO Myra A. Isometric endurance capacity and muscle fibre composition in man. 73*P*

NOBLE R. *see* BROWN A.G., FYFFE R.E.W., NOBLE R. & ROWE M.J. Effects of hind limb nerve section on lumbosacral dorsal horn neurones in the cat. 375

NORMAN P.S.R. *see* MANN G.E. & NORMAN P.S.R. Stimulation of neutral amino acid transport by insulin in the perfused rat exocrine pancreas. 53*P*

NUNN B.J. *see* BAYLOR D.A., MATTHEWS G. & NUNN B.J. Location and function of voltage-sensitive conductances in retinal rods of the salamander, *Ambystoma tigrinum*. 203

NUTTALL Alfred L. *see* BROWN M. Christian & NUTTALL Alfred L. Efferent control of cochlear inner hair cell responses in the guinea-pig. 625

OGSTON D. *see* MACDONALD A.G., OGSTON D. & PRICE R.A. High hydrostatic pressure modifies platelet aggregation. 50*P*

O'HARE J.P. *see* BHOOLA K.D., CHAPMAN I.D., CORRALL R.J.M., O'HARE J.P. & ROLAND J. Is tissue kallikrein important in the control of natriuresis and diuresis induced by water immersion in man? 68*P*

OKADA Yasunobu & UEDA Shunji Electrical membrane responses to secretagogues in parietal cells of the rat gastric mucosa in culture. 109

O'MÁILLE E.R.L. The influence of the structure of the bile acid molecule on its own secretion and on associated bile formation in the rat. (D) 30*P*

ONODERA K. *see* KAWAGOE R., ONODERA K. & TAKEUCHI A. The uptake and release of glutamate at the crayfish neuromuscular junction. 69

ORTIZ Olga E. & SJODIN R.A. Sodium- and adenosine-triphosphate-dependent calcium movements in membrane vesicles prepared from dog erythrocytes. 287

OSBORNE N.N. *see* BOYD P.J., OSBORNE N.N. & WALKER R.J. Immunohistochemical evidence for 5-Hydroxytryptamine (5-HT), FMRFamide-like and Substance P-like material in, and their actions on, the heart of the snail, *Helix aspersa*. 52*P*

PAINTER R. & YONGE R.P. An analysis of breathing and pedalling patterns during bicycle exercise – criteria for entrainment. 62*P*

PALLOT D.J. *see* BARER Gwenda R. & PALLOT D.J. Changes in catecholamine content of the rat carotid body in chronic hypoxia or hypercapnia; modification of hypoxic changes by carotid body sympathectomy. 63*P*

PATERSON J.Y.F. *see* GREEN Ann E., HARRISON F.A., HILLS F., PATERSON J.Y.F. & SAUNDERS R.C. Liver blood flow in conscious calves. 61*P*

PETERS T. J., RAJA K. B. & SIMPSON R.J. Comparison of *in vivo* and *in vitro* measurements of Fe^{3+} fluxes across mouse intestinal brush border membrane. 36*P*

PETERS T.J. *see* GARNER A., HEYLINGS J.R., PETERS T.J. & WILES J.M. Adrenergic agonists stimulate HCO_3 secretion by amphibian duodenum *in vitro* via an action on P_2 receptors. 34*P*

PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. A simple computer program that generates and analyses patterns representing single-channel current recordings. (D) 26*P*

PETERSEN C.C.H. *see* MARUYAMA Y., PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. Analysis of single-channel current traces from membrane patches apparently containing multiple identical channels. (D) 27*P*

PETERSEN J.-U.H. *see* PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. A simple computer program that generates and analyses patterns representing single-channel current recordings. (D) 26*P*

PETERSEN J.-U.H. *see* MARUYAMA Y., PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. Analysis of single-channel current traces from membrane patches apparently containing multiple identical channels. (D) 27*P*

PETERSEN O.H. *see* PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. A simple computer program that generates and analyses patterns representing single-channel current recordings. (D) 26*P*

PETERSEN O.H. *see* MARUYAMA Y., PETERSEN C.C.H., PETERSEN J.-U.H. & PETERSEN O.H. Analysis of single-channel current traces from membrane patches apparently containing multiple identical channels. (D) 27*P*

PETERSEN O.H. *see* DUNNE M.J., FINDLAY I. & PETERSEN O.H. Patch-clamp study of voltage- and Ca^{2+}-activated K^+ channels in isolated rat pancreatic islet cells. 44*P*

PHILLIPS S.F. *see* QUIGLEY E.M.M. & PHILLIPS S.F. Effect of feeding and intraluminal stimuli on canine ileocolonic junctional motility. 89*P*

PICKFORD P.D. *see* ARGENT B.E., ARKLE S., PICKFORD P.D. & SCHOFIELD P.S. The effects of trifluoperazine on amylase secretion by the *in vitro* rat parotid gland. 38*P*

PIERAU FR.-K. *see* FELLMER G., PIERAU FR.-K. & TAYLOR D.C.M. Double labelling with fluorescent tracers confirms prespinal somato-visceral convergence in rat and cat. 57*P*

PILOT Marie-Anne, THOMPSON H.H. & ZARA G.P. Mechanisms of action of 5-Hydroxytryptamine on canine intestinal motility. 41*P*

POTTER Erica K. *see* COURTICE Gillian P., KWONG T.E., LUMBERS Eugenie R. & POTTER Erica K. Excitation of the cardiac vagus by vasopressin in mammals. 547

POUCHER S.M. *see* KARIM F. & POUCHER S.M. Renal responses to small changes in carotid sinus pressure in dogs. 80*P*

POWER D.M. *see* DIMALINE R. & POWER D.M. Post-secretory processing of gastrin in the rat. 82*P*

PRICE R.A. *see* MACDONALD A.G., OGSTON D. & PRICE R.A. High hydrostatic pressure modifies platelet aggregation. 50*P*

PROSKE U. *see* MCINTYRE A.K., PROSKE U. & RAWSON J.A. Cortical projection of afferent information from tendon organs in the cat. 395

QUIGLEY E.M.M. & PHILLIPS S.F. Effect of feeding and intraluminal stimuli on canine ileocolonic junctional motility. 89*P*

RAJA K. B. *see* PETERS T. J., RAJA K. B. & SIMPSON R.J. Comparison of *in vivo* and *in vitro* measurements of Fe^{3+} fluxes across mouse intestinal brush border membrane. 36*P*

RANKIN A.J. *see* FORD R., HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. Influence of cephalic blood P_{co_2} on vascular capacitance in the dog. 65*P*

RAWLINSON S.R. *see* CURTIN N.A. & RAWLINSON S.R. Effects of carbon dioxide on force during shortening of isolated skeletal muscle from frog. 70*P*

RAWSON J.A. *see* MCINTYRE A.K., PROSKE U. & RAWSON J.A. Cortical projection of afferent information from tendon organs in the cat. 395

REILLY Thomas *see* BROOKS George A. & REILLY Thomas Thermoregulatory responses to exercise at different times of day. 99*P*

RINK T.J. *see* ALVAREZ-LEEFMANS F.J., GAMIÑO S.M. & RINK T.J. Intracellular free magnesium in neurones of *Helix aspersa* measured with ion-selective micro-electrodes. 303

ROBERTS Alan *see* CLARKE J.D.W. & ROBERTS Alan Interneurones in the *Xenopus* embryo spinal cord: sensory excitation and activity during swimming. 345

ROLAND J. *see* BHOOLA K.D., CHAPMAN I.D., CORRALL R.J.M., O'HARE J.P. & ROLAND J. Is tissue kallikrein important in the control of natriuresis and diuresis induced by water immersion in man? 68*P*

ROSSETTI C. *see* CREMASCHI D., JAMES P.S., MEYER G., ROSSETTI C. & SMITH M.W. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. 363

ROWE M.J. *see* BROWN A.G., FYFFE R.E.W., NOBLE R. & ROWE M.J. Effects of hind limb nerve section on lumbosacral dorsal horn neurones in the cat. 375

RUTHERFORD O. *see* DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

SANDERS D.J. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

SARGEANT A.J. *see* DOLAN P., GREIG C., GRINDROD S., NARICI M., RUTHERFORD O. & SARGEANT A.J. Effect of fast and slow high-resistance training on maximal leg force and muscle size in man. 100*P*

SAUNDERS R.C. *see* GREEN Ann E., HARRISON F.A., HILLS F., PATERSON J.Y.F. & SAUNDERS R.C. Liver blood flow in conscious calves. 61*P*

SCHOFIELD P.S. *see* ARGENT B.E., ARKLE S., PICKFORD P.D. & SCHOFIELD P.S. The effects of trifluoperazine on amylase secretion by the *in vitro* rat parotid gland. 38*P*

SCHWARTZ E.A. *see* COREY D.P., DUBINSKY J.M. & SCHWARTZ E.A. The calcium current in inner segments of rods from the salamander (*Ambystoma tigrinum*) retina. 557

SCHWARZ M., SONTAG K.-H. & WAND P. Non-dopaminergic neurones of the reticular part of substantia nigra can gate static fusimotor action onto flexors in cat. 333

SCOTT Evelyn M. *see* KIRKMAN E. & SCOTT Evelyn M. The effect of saralasin on the baroreceptor reflex in the cat. 60*P*

SCRATCHERD T. *see* BULL Judith S., COLLINGE I.A., GRUNDY D., SCRATCHERD T. & WACH R.A. The effect of intraluminal amino acids on small intestinal motility in the conscious dog. 40*P*

SHARKEY K.A. The use of retrograde tracing in combination with immunohistochemistry to study peptidergic visceral afferent pathways in the rat. (D) 28*P*

SHAW B. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

SHEIKH M. Iqbal *see* KRAGH-HANSEN Ulrich & SHEIKH M. Iqbal Serine uptake by luminal and basolateral membrane vesicles from rabbit kidney. 55

SIBLEY G.N.A. A comparison of spontaneous and nerve-mediated activity in bladder muscle from man, pig and rabbit. 431

SIMPSON R.J. *see* PETERS T. J., RAJA K. B. & SIMPSON R.J. Comparison of *in vivo* and *in vitro* measurements of Fe^{3+} fluxes across mouse intestinal brush border membrane. 36*P*

SINGH J. The use of an isolated frog ventricle preparation to seek inotropic agent(s) in serum. (D) 31*P*

SINGH J. Evidence for a sodium–potassium-chloride co-transport system in the isolated mouse pancreas. 93*P*

SJODIN R.A. *see* ORTIZ Olga E. & SJODIN R.A. Sodium- and adenosine-triphosphate-dependent calcium movements in membrane vesicles prepared from dog erythrocytes. 287

SMAJE L.H. *see* CLOUGH Geraldine & SMAJE L.H. Exchange area and surface properties of the microvasculature of the rabbit submandibular gland following duct ligation. 445

SMITH G. *see* WARHURST G., SMITH G., HIGGS N. & TURNBERG L.A. Morphine withdrawal diarrhoea may be initiated via central nervous opiate receptors in the rat. 88*P*

SMITH M.W. *see* CREMASCHI D., JAMES P.S., MEYER G., ROSSETTI C. & SMITH M.W. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. 363

SMITH M.W. *see* HEWITT J.E. & SMITH M.W. An unusual effect of thyroid hormones on lactase expression by adult rat jejunal enterocytes. 77*P*

SNART R.S. *see* COATES D.R. & SNART R.S. Developmental aspects of steroid-induced ammonia release from isolated sections of rat intestine. 1

SNEDDON P. *see* BURNSTOCK G. & SNEDDON P. Is the contractile response of the guinea-pig vas deferens to neuronally released noradrenaline dependent on membrane depolarization? 51*P*

SOLADOYE A.O. *see* FORD R., HAINSWORTH R., RANKIN A.J. & SOLADOYE A.O. Influence of cephalic blood P_{co_2} on vascular capacitance in the dog. 65*P*

SONTAG K.-H. *see* SCHWARZ M., SONTAG K.-H. & WAND P. Non-dopaminergic neurones of the reticular part of substantia nigra can gate static fusimotor action onto flexors in cat. 333

SPURDENS M.D. *see* DESMOND H.P., DOCKRAY G.J., GREGORY R.A. & SPURDENS M.D. Identification and characterization of a novel peptide generated during gastrin biosynthesis in pig and ferret. 83*P*

STEFANI E. *see* COTA G., NICOLA SIRI L. & STEFANI E. Calcium channel inactivation in frog (*Rana pipiens* and *Rana moctezuma*) skeletal muscle fibres. 99

SUZUE Toshihiko Respiratory rhythm generation in the *in vitro* brain stem–spinal cord preparation of the neonatal rat. 173

TAKEUCHI A. *see* KAWAGOE R., ONODERA K. & TAKEUCHI A. The uptake and release of glutamate at the crayfish neuromuscular junction. 69

TAYLOR Ann *see* BARBER Barbara & TAYLOR Ann Calmodulin antagonists block vasopressin-stimulated water flow, but not the inhibitory effects of raised cytosolic Ca^{2+} in toad urinary bladder. 47*P*

TAYLOR D.C.M. *see* FELLMER G., PIERAU FR.-K. & TAYLOR D.C.M. Double labelling with fluorescent tracers confirms prespinal somato-visceral convergence in rat and cat. 57*P*

TAYLOR D.E.M. & TUKMACHI E.S.A. Reflection coefficients in common carotid and vertebrate arteries in the dog. 66*P*

TAYLOR E.W. *see* BARRETT D.J. & TAYLOR E.W. Characteristics of vagal motoneurones in the dogfish, *Scyliorhinus canicular* (L.) 59*P*

TAYLOR I.L. *see* ELASHOFF J., GARCIA R. & TAYLOR I.L. Effects of vagotomy on satiety induced by gastrointestinal hormones in the rat. 78*P*

THOMAS R.C. REVIEW LECTURE: Experimental displacement of intracellular pH and the mechanism of its subsequent recovery. 3*P*

THOMPSON H.H. *see* PILOT Marie-Anne, THOMPSON H.H. & ZARA G.P. Mechanisms of action of 5-Hydroxytryptamine on canine intestinal motility. 41*P*

THORN P. *see* MARTIN R.J. & THORN P. A high conductance anion channel in somatic muscle cells of *Ascaris suum*. 46*P*

TRENTHAM D.R. *see* GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Relaxation of rabbit psoas muscle fibres from rigor by photochemical generation of adenosine-5′-triphosphate. 577

TRENTHAM D.R. *see* GOLDMAN Y.E., HIBBERD M.G. & TRENTHAM D.R. Initiation of active contraction by photogeneration of adenosine-5′-triphosphate in rabbit psoas muscle fibres. 605

TSIEN R.W. *see* LEE K.S. & TSIEN R.W. High selectivity of calcium channels in single dialysed heart cells of the guinea-pig. 253

TUKMACHI E.S.A. *see* TAYLOR D.E.M. & TUKMACHI E.S.A. Reflection coefficients in common carotid and vertebrate arteries in the dog. 66*P*

TURNBERG L.A. *see* WARHURST G., SMITH G., HIGGS N. & TURNBERG L.A. Morphine withdrawal diarrhoea may be initiated via central nervous opiate receptors in the rat. 88*P*

TURNER N.C. *see* MARRIOTT C., MARTIN G.P., NEWBERY R. & TURNER N.C. The effect of phosphatidylcholine on bile-salt-induced gastric ulceration in the rat. 84*P*

TURNER N.C. *see* JIVRAJ M., MARRIOTT C., MARTIN G.P. & TURNER N.C. The effect of potential ulcerogenic agents on hydrogen ion diffusion through native porcine gastric mucus. 85*P*

UDDIN K.K. *see* CASE R.M., GARNER A. & UDDIN K.K. A comparison of the actions of secretin, prostaglandin E_2 and CCK-octapeptide on duodenal and biliary HCO_3 secretion *in vivo*. 81*P*

UEDA Shunji *see* OKADA Yasunobu & UEDA Shunji Electrical membrane responses to secretagogues in parietal cells of the rat gastric mucosa in culture. 109

WACH R.A. *see* BULL Judith S., COLLINGE I.A., GRUNDY D., SCRATCHERD T. & WACH R.A. The effect of intraluminal amino acids on small intestinal motility in the conscious dog. 40*P*

WALKER J. *see* GARLAND H.O. & WALKER J. Intrarenal blood flow distribution following acute saline loading in the pregnant rat. 67*P*

WALKER R.J. *see* BOYD P.J., OSBORNE N.N. & WALKER R.J. Immunohistochemical evidence for 5-Hydroxytryptamine (5-HT), FMRFamide-like and Substance P-like material in, and their actions on, the heart of the snail, *Helix aspersa*. 52*P*

WAND P. *see* SCHWARZ M., SONTAG K.-H. & WAND P. Non-dopaminergic neurones of the reticular part of substantia nigra can gate static fusimotor action onto flexors in cat. 333

WARHURST G., SMITH G., HIGGS N. & TURNBERG L.A. Morphine withdrawal diarrhoea may be initiated via central nervous opiate receptors in the rat. 88*P*

WATKIN W.B. *see* COOKE R.G., HOMEIDA A.M. & WATKIN W.B. Simultaneous release of neurophysin and ovarian oxytocin during luteolysis in the goat. 97*P*

WESTBROOK Gary L. *see* MAYER Mark L. & WESTBROOK Gary L. Mixed-agonist action of excitatory amino acids on mouse spinal cord neurones under voltage clamp. 29

WILES J.M. *see* GARNER A., HEYLINGS J.R., PETERS T.J. & WILES J.M. Adrenergic agonists stimulate HCO_3 secretion by amphibian duodenum *in vitro* via an action on P_2 receptors. 34*P*

WILKIE D.R. *see* CADY E.B., EDWARDS R.H.T., GRIFFITHS R.D. & WILKIE D.R. ^{31}P nuclear magnetic resonance (NMR) studies of leg-muscle metabolites in Duchenne muscular dystrophy. 71*P*

WILKINSON J. *see* GHELANI A., HOLT D., HUNT W.B. & WILKINSON J. The use of a cascade of superfused preparations to investigate the nature of the rebound contraction of the rat gastric corpus stip to field stimulation. 87*P*

WILLIS J.S. *see* HALL A.C. & WILLIS J.S. 'Passive' cation permeability in red cells of various species at low temperatures. 49*P*

WILSON H. *see* FONE K.C.F. & WILSON H. A method for the simultaneous superfusion and extracellular recording of medullary respiratory neurones in the cat. 96*P*

YONGE R.P. *see* PAINTER R. & YONGE R.P. An analysis of breathing and pedalling patterns during bicycle exercise – criteria for entrainment. 62*P*

ZAHEDI-ASL S. *see* ARILLA E., GILROY A.S., HIRST B.H., MARR A.P., SANDERS D.J., SHAW B. & ZAHEDI-ASL S. Glucagon and G.I.P. inhibition of gastrin-stimulated pepsin secretion in the cat. 39*P*

ZARA G.P. *see* PILOT Marie-Anne, THOMPSON H.H. & ZARA G.P. Mechanisms of action of 5-Hydroxytryptamine on canine intestinal motility. 41*P*